

ABSTRACT

This invention provides compounds and methods for treating, with said compound, a mycobacterial infection by administering to an animal a pharmaceutical composition containing a compound having the formula $R-SO_n-Z-CO-Y$, where R is an alkyl groups having 6-20 carbon atoms, unsaturated hydrocarbon groups having 6-20 carbon atoms, or alkyl groups having 6-20 carbon atoms interrupted by at least one aromatic ring; Z is $-CH_2-$, $-CH_2CH_2-$, $-NH-NH-$, $-O-$, $-NH-$, $-O-NH-$, $-CH_2-NH-$, $-CH_2-O-$, $-NH-O-$, $-NH-CH_2-$, $-O-CH_2-$, and $-CH=CH-$; Y is $-NH_2$, $-O-CH_2-C_6H_5$, $-CO-CO-O-CH_3$, and $-O-CH_3$; and n is 1 or 2. It has been discovered that these compounds treat microbially-based infections caused by corynebacteria, nocardiae, rhodococcus, and mycobacteria. These compounds may be used to treat mycobacterial cells, such as *Mycobacteria tuberculosis*, drug resistant *M. tuberculosis*, *M. avium intracellulare*, *M. leprae*, *M. paratuberculosis*, and pathogenic *Mycobacteria sp.*